



US Army Aviation and Missile Research,
Development, and Engineering Center



AMRDEC AT WORK

AMRDEC plays a critical role in the Degraded Visual Environment Mitigation Program, advancing and implementing technologies to enable safe operations in all DVE conditions. (Top). The Multi-Mission Launcher Program, which conducted its Preliminary Design Review in July, 2015, is an air-defense launcher being developed for the Indirect Fire Protection Capability Increment 2-Intercept program to provide the U.S. Army 360 degree short range air defense capability against cruise missiles, unmanned aerial systems, rockets, artillery, and mortars.

We Are AMRDEC

The U.S. Army Aviation and Missile Research Development, and Engineering Center, a subordinate organization to the Research, Development and Engineering Command, is the Army's focal point for providing research, development, and engineering technology and services for aviation and missile platforms across the lifecycle. AMRDEC has a long history of providing unparalleled service to its aviation and missile customers, while always striving to provide the greatest service to its ultimate customer, the warfighter, by providing technology and weapon system solutions to ensure his/her victory on the battlefield.

MISSION

Deliver collaborative and innovative technical capabilities for responsive and cost-effective research, product development, and Life Cycle Systems Engineering solutions.

VISION

Be a Warfighter-focused valued team of world leaders in aviation and missile technologies and Life Cycle Systems Engineering.

PURPOSE

As an innovative workforce, we enable the world's premier aviation systems, missile systems and related technologies to defend the freedom of our nation and allies.

DIRECTORATES

- Aviation Development Directorate (ADD)
- Aviation Engineering Directorate (AED)
- Engineering Directorate (ED)
- Systems Simulation, Software & Integration Directorate (S3i)
- Weapons Development & Integration Directorate (WDI)



AMRDEC
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CORE TECHNICAL COMPETENCIES

The Army depends on AMRDEC to execute an integrated portfolio of research, development and engineering efforts that are responsive to the highest priorities as defined by our stakeholders and customers. The depth and breadth of our missile and aviation core competencies serve as a unique national asset. AMRDEC's core technical competencies depend upon a preeminent, multi-disciplinary, adaptive workforce that conducts leading edge research, development and life cycle engineering, while promoting discovery and innovation across government, academia and industry.

OUR PEOPLE

AMRDEC employs nearly 11,000 civilian and contract scientists, researchers, and engineers.

OUR LOCATIONS

AMRDEC is a large organization with facilities spread across the U.S. Headquartered at Redstone Arsenal, we have laboratories for innovative work on sensors and electronics, propulsion systems, aerodynamic structures, modeling and simulation, life cycle software development, and technical testing. We also have laboratories at Fort Eustis and Hampton, Virginia and Moffett Field, California where Army and NASA aviation facilities, such as instrumented test ranges and wind tunnels, are used for advanced rotorcraft technologies to support our role as lead service for rotorcraft science and technology. Our responsibility for aircraft extends to airworthiness release authority for issuing the technical document that provides instructions and limitations for safe flight of an aircraft system, subsystem, or allied equipment. Finally, AMRDEC has personnel devoted to aviation sustainment and engineering located in Corpus Christi, Texas and serving as Liaison Engineers (LEs) around the globe. In addition to these assets, AMRDEC and our customers also benefit from additional resources available at Redstone, including test ranges and facilities managed by the Redstone Test Center (RTC), the FBI's Hazardous Devices School, and the Redstone Arsenal Airfield.



ADVANCING TECHNOLOGIES

AMRDEC designs and develops advanced, high-fidelity digital and hardware-in-the-loop models and simulations for aviation and missile systems.

